First Regular Session Seventy-first General Assembly STATE OF COLORADO

INTRODUCED

LLS NO. 17-0614.02 Duane Gall x4335

HOUSE BILL 17-1299

HOUSE SPONSORSHIP

Hansen and Coleman,

SENATE SPONSORSHIP

(None),

House Committees

Transportation & Energy

Senate Committees

	A BILL FOR AN ACT
101	CONCERNING A TRANSPORTATION LEGISLATION REVIEW COMMITTEE
102	HEARING ON THE INTEGRATION OF ENERGY STORAGE INTO THE
103	ELECTRIC RESOURCE PLANNING PROCESS FOR PUBLIC UTILITIES.

Bill Summary

(Note: This summary applies to this bill as introduced and does not reflect any amendments that may be subsequently adopted. If this bill passes third reading in the house of introduction, a bill summary that applies to the reengrossed version of this bill will be available at http://leg.colorado.gov.)

The bill directs the transportation legislation review committee (TLRC) to conduct a hearing during the 2017 interim on the potential economic and social benefits and costs of requiring the public utilities commission to determine the appropriate targets, if any, for the amount of viable and cost-effective energy storage systems (e.g., batteries, heat

sinks, pumped storage hydroelectric systems) that an electric utility subject to Colorado's renewable energy standard should incorporate into its electric resource acquisition plans.

The hearing must take place on or before December 1, 2017.

1	Be it enacted by the General Assembly of the State of Colorado:
2	SECTION 1. In Colorado Revised Statutes, add 43-2-145.8 as
3	follows:
4	43-2-145.8. Transportation legislation review committee -
5	inclusion of energy storage systems in utility resource planning -
6	legislative declaration - definitions - hearing - repeal. (1) (a) The
7	GENERAL ASSEMBLY FINDS AND DETERMINES THAT:
8	(I) EXPANDING THE USE OF ENERGY STORAGE SYSTEMS CAN ASSIST
9	ELECTRIC UTILITIES IN IMPROVING THE RELIABILITY AND SECURITY OF
10	SERVICE;
11	(II) ADDITIONAL ENERGY STORAGE SYSTEMS CAN OPTIMIZE THE
12	USE OF VARIABLE, INTERMITTENT, AND OFF-PEAK ELECTRICAL
13	GENERATION FROM SOURCES SUCH AS HYDROELECTRIC, WIND, AND SOLAR
14	ENERGY;
15	(III) EXPANDED USE OF ENERGY STORAGE SYSTEMS CAN REDUCE
16	COSTS TO RATEPAYERS BY AVOIDING OR DEFERRING THE NEED FOR NEW
17	PEAKING POWER PLANTS AND AVOIDING OR DEFERRING UPGRADES TO THE
18	DISTRIBUTION AND TRANSMISSION SYSTEM AND EXPANSION OF THE
19	ELECTRICAL GRID;
20	(IV) EXPANDED USE OF ENERGY STORAGE SYSTEMS WILL REDUCE
21	THE USE OF ELECTRICITY GENERATED FROM COSTLY FUELS TO MEET LOAD
22	REQUIREMENTS ON DAYS WITH HIGH ELECTRICITY DEMAND AND CAN
23	AVOID OR REDUCE THE NEED FOR ADDITIONAL ELECTRIC GENERATION

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1	FACILITIES TO MEET THAT DEMAND, THUS SAVING MONEY FOR
2	RATEPAYERS AND REDUCING EMISSIONS;
3	(V) USE OF ENERGY STORAGE SYSTEMS TO PROVIDE ANCILLARY
4	SERVICES WILL REDUCE COSTS FOR RATEPAYERS; AND
5	(VI) THERE ARE SIGNIFICANT BARRIERS TO OBTAINING THE
6	BENEFITS OF ENERGY STORAGE SYSTEMS, INCLUDING:
7	(A) INADEQUATE EVALUATION OF THE USE OF ENERGY STORAGE
8	TO INTEGRATE ENERGY RESOURCES INTO THE TRANSMISSION AND
9	DISTRIBUTION GRID THROUGH LONG-TERM ELECTRICITY RESOURCE
10	PLANNING;
11	(B) LACK OF RECOGNITION OF TECHNOLOGICAL AND
12	MARKETPLACE ADVANCEMENTS; AND
13	(C) INADEQUATE STATUTORY AND REGULATORY SUPPORT.
14	(b) THEREFORE, THE GENERAL ASSEMBLY DECLARES THAT AN
15	INTERIM HEARING IS APPROPRIATE TO FURTHER INVESTIGATE THE
16	ECONOMIC AND SOCIAL BENEFITS AND COSTS OF, AND TO ENCOURAGE THE
17	PLANNING FOR AND INCORPORATION OF, ENERGY STORAGE SYSTEMS AS
18	PART OF COLORADO'S ELECTRIC ENERGY GRID.
19	(2) AS USED IN THIS SECTION, UNLESS THE CONTEXT OTHERWISE
20	REQUIRES:
21	(a) "COMMISSION" MEANS THE COLORADO PUBLIC UTILITIES
22	COMMISSION.
23	(b) (I) "ENERGY STORAGE SYSTEM" MEANS COMMERCIALLY
24	AVAILABLE TECHNOLOGY THAT IS CAPABLE OF ABSORBING ENERGY,
25	STORING IT FOR A PERIOD OF TIME, AND THEREAFTER DISPATCHING THE
26	ENERGY AS DESCRIBED IN THIS SUBSECTION (2)(b).
77	(II) AN ENERGY STOPAGE SYSTEM:

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1	(A) MAY BE EITHER CENTRALIZED OR DISTRIBUTED AND MAY BE
2	OWNED BY A QUALIFYING RETAIL UTILITY, A CUSTOMER OF A QUALIFYING
3	RETAIL UTILITY, A THIRD PARTY, OR JOINTLY BY TWO OR MORE OF THESE
4	ENTITIES;
5	(B) MUST IMPROVE THE RELIABLE OPERATION OF THE ELECTRICAL
6	TRANSMISSION OR DISTRIBUTION GRID IN A COST-EFFECTIVE MANNER;
7	REDUCE DEMAND FOR ELECTRICAL GENERATION; OR DEFER OR SUBSTITUTE
8	FOR AN INVESTMENT IN GENERATION, TRANSMISSION, OR DISTRIBUTION
9	ASSETS; AND
10	(C) MUST USE MECHANICAL, CHEMICAL, OR THERMAL PROCESSES
11	TO STORE ENERGY THAT WAS GENERATED AT ONE TIME FOR USE AT A
12	LATER TIME; STORE THERMAL ENERGY FOR DIRECT USE FOR HEATING OR
13	COOLING AT A LATER TIME IN A MANNER THAT AVOIDS THE NEED TO USE
14	ELECTRICITY AT THAT LATER TIME; USE MECHANICAL, CHEMICAL, OR
15	THERMAL PROCESSES TO STORE ENERGY GENERATED FROM RENEWABLE
16	RESOURCES FOR USE AT A LATER TIME; OR USE MECHANICAL, CHEMICAL,
17	OR THERMAL PROCESSES TO STORE ENERGY GENERATED FROM
18	MECHANICAL PROCESSES THAT WOULD OTHERWISE BE WASTED FOR
19	DELIVERY AT A LATER TIME.
20	(c) "New", with reference to an energy storage system,
21	MEANS THAT THE SYSTEM IS INSTALLED ON OR AFTER JANUARY 1, 2017.
22	(d) "PEAK DEMAND PERIOD" MEANS A PERIOD OF HIGH DAILY,
23	WEEKLY, OR SEASONAL DEMAND FOR ELECTRICITY. FOR PURPOSES OF THIS
24	SECTION, THE PEAK DEMAND PERIOD FOR AN INVESTOR-OWNED UTILITY
25	SHALL BE DETERMINED OR APPROVED BY THE PUBLIC UTILITIES
26	COMMISSION AND FOR A MUNICIPALLY OWNED UTILITY OR NONEXEMPT
27	COOPERATIVE ELECTRIC ASSOCIATION SHALL BE DETERMINED OR

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APPROVED BY ITS GOVERNING BODY

- 2 (e) "PROCURE", WITH REFERENCE TO AN ENERGY STORAGE
 3 SYSTEM, MEANS TO CONSTRUCT OR PURCHASE THE ENERGY STORAGE
 4 SYSTEM OR TO ACQUIRE AN ENFORCEABLE RIGHT TO USE THE ENERGY
 5 FROM, OR THE CAPACITY OF, AN ENERGY STORAGE SYSTEM OWNED BY
 6 ANOTHER PERSON.
- 7 (f) "QUALIFYING RETAIL UTILITY" HAS THE MEANING SET FORTH IN SECTION 40-2-124 (1).
 - (3) (a) ON OR BEFORE DECEMBER 1, 2017, THE TRANSPORTATION LEGISLATION REVIEW COMMITTEE SHALL HOLD A HEARING ON THE POTENTIAL ECONOMIC AND SOCIAL BENEFITS AND COSTS OF REQUIRING THE PUBLIC UTILITIES COMMISSION TO DETERMINE THE APPROPRIATE TARGETS, IF ANY, FOR THE AMOUNT OF VIABLE AND COST-EFFECTIVE ENERGY STORAGE SYSTEMS THAT AN ELECTRIC UTILITY SUBJECT TO COLORADO'S RENEWABLE ENERGY STANDARD SHOULD INCORPORATE INTO ITS ELECTRIC RESOURCE ACQUISITION PLANS.
 - (b) (I) THE TRANSPORTATION LEGISLATION REVIEW COMMITTEE SHALL INVITE MEMBERS OF THE COMMISSION OR THE COMMISSION'S DESIGNEE, REPRESENTATIVES OF COLORADO ELECTRIC SERVICE PROVIDERS, AND INTERESTED MEMBERS OF THE PUBLIC TO THE HEARING TO ENGAGE IN A PANEL DISCUSSION OF THE ISSUES SET FORTH IN SUBSECTION (3)(a) OF THIS SECTION.
 - (II) IN ADDITION TO ALLOWING PUBLIC TESTIMONY AT THE HEARING, THE TRANSPORTATION LEGISLATION REVIEW COMMITTEE SHALL ACCEPT WRITTEN QUESTIONS SUBMITTED BY MEMBERS OF THE PUBLIC TO BE ASKED OF THE PANEL MEMBERS BY THE CHAIR OF THE COMMITTEE OR THE CHAIR'S DESIGNEE AT THE HEARING. THE CHAIR MAY DETERMINE:

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1	(A) THE NUMBER OF SUBMITTED WRITTEN QUESTIONS ASKED OF
2	THE PANEL; AND
3	(B) THE ORDER IN WHICH THE APPROVED SUBMITTED QUESTIONS
4	WILL BE ASKED OF THE PANEL.
5	(4) This section is repealed, effective July 1, 2018.
6	SECTION 2. Act subject to petition - effective date. This act
7	takes effect at 12:01 a.m. on the day following the expiration of the
8	ninety-day period after final adjournment of the general assembly (August
9	9, 2017, if adjournment sine die is on May 10, 2017); except that, if a
10	referendum petition is filed pursuant to section 1 (3) of article V of the
11	state constitution against this act or an item, section, or part of this act
12	within such period, then the act, item, section, or part will not take effect
13	unless approved by the people at the general election to be held in
14	November 2018 and, in such case, will take effect on the date of the
15	official declaration of the vote thereon by the governor.

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